

Hazard Probability of a Risk

- A **risk assessment matrix** is a tool that can be used to determine how risky an identified hazard is. Standard terms associated with risk assessment matrices include:
 - **Probability**. How likely is an event to occur.
 - **Effect**. Consequences if the event occurs.

Risk Assessment Matrix

			HAZARD PROBABILITY				
			Frequent	Likely	Occasional	Seldom	Unlikely
			A	B	C	D	E
EFFECT	Catastrophic	I	Extremely High		High		
	Critical	II					
	Moderate	III	Medium		Low		
	Negligible	IV					

Ris k Management



HAZARD PROBABILITY				
Frequent	Likely	Occasional	Seldom	Unlikely
A	B	C	D	E

● **Frequent**

- ◆ **Individual item.** Occurs often in the life of the system.
- ◆ **Fleet or inventory.** Continuously experienced.
- ◆ **Individual soldier.** Occurs often in career.
- ◆ **All soldiers exposed.** Continuously experienced.

Ris k Management



HAZARD PROBABILITY				
Frequent	Likely	Occasional	Seldom	Unlikely
A	B	C	D	E

● Likely

- ◆ Individual item. Occurs several times in the life of the system.
- ◆ Fleet or inventory. Occurs frequently.
- ◆ Individual soldier. Occurs several times in career.
- ◆ All soldiers exposed. Occurs frequently.

Ris k Management



HAZARD PROBABILITY				
Frequent	Likely	Occasional	Seldom	Unlikely
A	B	C	D	E

● Occasional

- ◆ Individual item. Will occur in the life of the system.
- ◆ Fleet or inventory. Occurs several times in the life of the system.
- ◆ Individual soldier. Will occur in career.
- ◆ All soldiers exposed. Occurs sporadically.

Risk Management



HAZARD PROBABILITY				
Frequent	Likely	Occasional	Seldom	Unlikely
A	B	C	D	E

● Seldom

- ◆ **Individual item.** Unlikely but could occur in the life of the system.
- ◆ **Fleet or inventory.** Unlikely but can be expected to occur in the life of the system.
- ◆ **Individual soldier.** Unlikely but could occur in career.
- ◆ **All soldiers exposed.** Occurs seldom.

Ris k Management



HAZARD PROBABILITY				
Frequent	Likely	Occasional	Seldom	Unlikely
A	B	C	D	E

● Unlikely

- ◆ **Individual item.** So unlikely you can assume it will not occur in the life of the system.
- ◆ **Fleet or inventory.** Unlikely but could occur in the life of the system.
- ◆ **Individual soldier.** So unlikely you can assume it will not occur in a career.
- ◆ **All soldiers exposed.** Occurs very rarely.

Risk Management



E F F E C T	Catastrophic	I
	Critical	II
	Moderate	III
	Negligible	IV

Catastrophic - Death or permanent total disability, system loss, major property damage.

Critical - Permanent partial disability, temporary total disability in excess of 3 months, major system damage, significant property damage.

Moderate - Minor injury, lost workday accident, compensable injury or illness, minor system damage, minor property damage.

Negligible - First aid or minor supportive medical treatment, minor system impairment.

Risk Management



Risk Levels

Extremely High	High	Medium	Low
High	Medium	Low	
	Medium	Low	
		Low	

Extremely High - Loss of ability to accomplish mission.

High - Significantly degrades mission capability in terms of required mission standards.

Medium - Degrades mission capabilities in terms of required mission.

Low - Little or no impact on mission accomplishment.